

SEQUENCE LISTING

10/524043
BT01 Rec'd PCT/PTC 04 FEB 2005

<110> Bavarian Nordic A/S

<120> Vaccinia virus host range genes to increase the titer of avipoxviruses

<130> BN48PCT

<150> DK PA 2002 01189

<151> 2002-09-08

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 615

<212> DNA

<213> MVA

<220>

<221> estimated promoter sequence for C7L in MVA

<222> (1)..(162)

<223>

<220>

<221> CDS

<222> (163)..(615)

<223>

<400> 1

attaataaac tttaagacat gtgtgtttata ctaagatggt tggcttattc catagtagct 60

tgtggaattt ataaacttat gatagtaaaa ctagtaccba atatgtaaag atgaaaaagt 120

aaattactat taacgccgtc ggtattcgtt catccattca gt atg ggt ata cag 174
Met Gly Ile Gln
1

cac gaa ttc gac atc att att aat gga gat atc gcg ttg aga aat tta 222
 His Glu Phe Asp Ile Ile Ile Asn Gly Asp Ile Ala Leu Arg Asn Leu 20
 5 10 15
 cag tta cat aaa ggg gat aac tac gga tgc aaa cta aaa att att tcg 270
 Gln Leu His Lys Gly Asp Asn Tyr Gly Cys Lys Leu Lys Ile Ile Ser 35
 25 30
 aat gat tac aag aaa tta aag ttt aga ttc att ata cgc cca gat tgg 318
 Asn Asp Tyr Lys Lys Leu Lys Phe Arg Phe Ile Ile Arg Pro Asp Trp 50
 40 45
 tcg gaa atc gac gag gtc aaa gga tta acc gta ttt gca aac aac tat 366
 Ser Glu Ile Asp Glu Val Lys Gly Leu Thr Val Phe Ala Asn Asn Tyr 65
 55 60
 gcg gtg aaa gtt aat aag gta gat gac acg ttc tat tac gta ata tat 414
 Ala Val Lys Val Asn Lys Val Asp Asp Thr Phe Tyr Tyr Val Ile Tyr 80
 70 75
 gag gct gta ata cat ctg tat aac aaa aaa aca gag ata ttg att tat 462
 Glu Ala Val Ile His Leu Tyr Asn Lys Lys Thr Glu Ile Leu Ile Tyr 100
 85 90
 tct gat gat gag aac gaa ctc ttt aaa cac tat tac cca tac atc agt 510
 Ser Asp Asp Glu Asn Glu Leu Phe Lys His Tyr Tyr Pro Tyr Ile Ser 115
 105 110
 cta aat atg att agt aaa aag tat aaa gtt aaa gaa gaa aac tac tca 558
 Leu Asn Met Ile Ser Lys Lys Tyr Lys Val Lys Glu Glu Asn Tyr Ser 130
 120 125
 tcc ccg tat ata gaa cat ccg tta atc ccg tat aga gat tat gag tcc 606
 Ser Pro Tyr Ile Glu His Pro Leu Ile Pro Tyr Arg Asp Tyr Glu Ser 145
 135 140 145
 atg gat taa 615
 Met Asp 150

<210> 2

<211> 150

<212> PRT

<213> MVA

<400> 2

Met Gly Ile Gln His Glu Phe Asp Ile Ile Ile Asn Gly Asp Ile Ala
 1 5 10 15

Leu Arg Asn Leu Gln Leu His Lys Gly Asp Asn Tyr Gly Cys Lys Leu
 20 25 30

Lys Ile Ile Ser Asn Asp Tyr Lys Lys Leu Lys Phe Arg Phe Ile Ile
 35 40 45

Arg Pro Asp Trp Ser Glu Ile Asp Glu Val Lys Gly Leu Thr Val Phe
 50 55 60

Ala Asn Asn Tyr Ala Val Lys Val Asn Lys Val Asp Asp Thr Phe Tyr
65 70 75 80

Tyr Val Ile Tyr Glu Ala Val Ile His Leu Tyr Asn Lys Lys Thr Glu
85 90 95

Ile Leu Ile Tyr Ser Asp Asp Glu Asn Glu Leu Phe Lys His Tyr Tyr
100 105 110

Pro Tyr Ile Ser Leu Asn Met Ile Ser Lys Lys Tyr Lys Val Lys Glu
115 120 125

Glu Asn Tyr Ser Ser Pro Tyr Ile Glu His Pro Leu Ile Pro Tyr Arg
130 135 140

Asp Tyr Glu Ser Met Asp
145 150

<210> 3

<211> 1001

<212> DNA

<213> Canarypoxvirus

<400> 3

atactattct tcacggtaca tttaaaaaaaa ggaatatagt cagaaacagg aaatatactt	60
tcactataac atggtctaatt ttcgaatgtc cgacgtagg agacgttaag tcttcttcac	120
ctaataacctg taatagagta gtttttagacg gtagtagata cggtacaaaa acctttaatg	180
atacaatata aatggaacta actagagaaa cgctgatatt tgtaggcatt actgtactag	240
tagtagtaat gatcatatct ggtttctcac taatattgcg attgatacct ggtgtatatt	300
catcagttat tagatcgctg ttcgtaggag ggaaaatatt aagatttatg gaggtattct	360
ctactgttat gtttatacca tcattagtaa tactttatac agcatatata aggaaatcta	420
aagtgaaaaa taactaaata ttatagtatt tgtaataaat ggctactgga gagattcgtc	480
ttattatagg gcctatgttt tcaggtaaaa caacagaatt agttagatta ataagaagat	540
ttatgatatc gggacgtaaa tgtataataa taaaacattg tagtgattcc cgttataccg	600
aaggagattt agaagctata tatactcatg ataaaatttc gatggaagca ctatcgtgta	660
gcaaattatt acctttaata cctaaaattg ataactttga agtaataggt atagacgaag	720
gacagttttt tgaagatata gtagaattta gtgagattat ggctaataag ggtaaaactg	780
taatcatagc ggctttaaat ggagatttca aacgacaatt atttggaaac atatttaaac	840
tattatcttt atcagaatca gttactagtt taactgctat ttgtgcagtt tgtaaaaacg	900
aagcatcttt ttctaagcgc atgactgatg ataaagatgt aaaagttata ggaggtaaag	960

aaatgtatac tgctgtttgt agaaaatgct ttttatgagt c 1001

<210> 4

<211> 1003

<212> DNA

<213> Canarypoxvirus

<400> 4

taatatacgt actaaatact tgtacgtaca actatgttag aataatttgc ttagtatagt	60
atataaacia gtatgtaaaa aataaaattg atataaaagt agtcttctat tccgaacaat	120
aactatacaa aatggattta gatattaaat cttgcagaag tatttacaaa atatgggata	180
aatatcattt tatgacagg tataaatata aaaatgataa acagagattt aaaattacaa	240
tttactgtaa atgtgattgt tctatcaaag aatatcctta tagatttggt actgagaaac	300
tgcttttaat gtatattatt aataagttta gaggaaagta tctaataaaa attaggatag	360
aacccatagt taaaaattaa atcatatatc aatacatgtc agttttttat cgaaaaatgg	420
atttataaat aaaatgaaaa ataacttgaa tgaaggaaaa aataaccatg agtaaaaaac	480
cagtaaagac ggtccagcgt agacgtggaa acgatgagga taataagttt acttgatatcc	540
aagcgctaga acatgcaaaa agcttatgta ctaaaaaataa taaaatagtt aaatctgtta	600
aactatcaca atctctcttt aagtcattcta acaatatttc tgtgatatta gaaccagaat	660
ataaagacaa attagtgact cctcttatta ttgtagaagg tgaaggaaaa atataccata	720
ataagaatga tagtttttaat cgtgaagaac cgtattttct aaaaatacga cctacgttaa	780
tgaatcctat attatatcag attatggaat gcatttatag agatctcaat tatttggatc	840
ccgagaatac gatggatgaa aaaacattta aagattgtca tctgtatatt aacggaaata	900
ggattatgtc cgccgacgta aaatatttga agaattgtaa acctgtagga gaaaaattat	960
ccgtatccaa ggaaatagat aaactggtta aaaaagatcc aca	1003